## 5 USING THE DATA EXCHANGE GATEWAY (DEG)

The State of Michigan has established two communications connections for the Data Exchange Gateway: (1) a point-to-point protocol (PPP) modem communications connection, and (2) a Secure Sockets Layer (SSL) Internet connection. (See Figure 4-1.) These connections are independent of the platform used to transmit data, whether it is from a Unix, Apple, mainframe, or Windows-based personal computer.

Instructions for using the PPP connection are provided below; instructions for connecting via the new SSL connection are contained in a separate document found at the MDCH Web site with this manual.

### 5.1 POINT-TO-POINT PROTOCOL

Connecting to the Data Exchange Gateway via modem is a two-part process: (1) establishing a connection with the point-to-point protocol (PPP) and (2) establishing a connection with a file transfer protocol (FTP).

Specifications for these connections are described below, followed by step-by-step instructions on how to establish and use those connections. The PPP server is a T1 connection divided into twenty-four 56 kbps (kilobytes per second) connections.

### 5.1.1 Hardware, Software, and Connection Requirements

Transmitting Computer: Any

Modem: Up to 56 kilobytes per second

Software: **Both** PPP Dialup and FTP (File Transfer Protocol) required once a connection is made into the DEG. (Windows 95 and NT both have PPP and FTP software built in.)

PPP phone number: 517-373-6181

TCP/IP address: 204.23.253.97

5.1.2    Getting Started with the Point-to-Point Protocol

The following instructions are provided as an example of how to establish a connection using Microsoft Windows software on a personal computer (PC).  Since PPP does not depend on a particular platform or software, all of the possible methods of connecting cannot be addressed here.  If there are questions about the computer a file is being sent from, contact the local systems administrator.

1.  Double-click the My Computer icon on the computer desktop.  The icons available on this computer will be shown (Figure 5-1).



**Figure 5-1:    Selecting the Dial-Up Networking Icon**

2. Double-click the Dial-Up Networking icon in the My Computer configuration window. The Dial-Up Networking option will show (Figure 5-2).
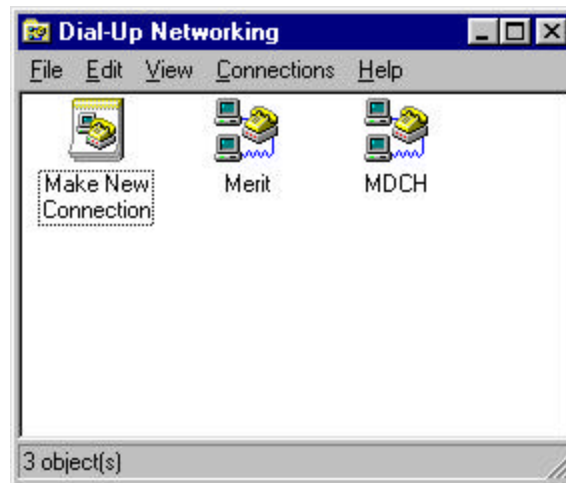


**Figure 5-2:    Dial-Up Networking Options**

3. Double-click the Make a New Connection icon. The Make New Connection window appears (Figure 5-3).

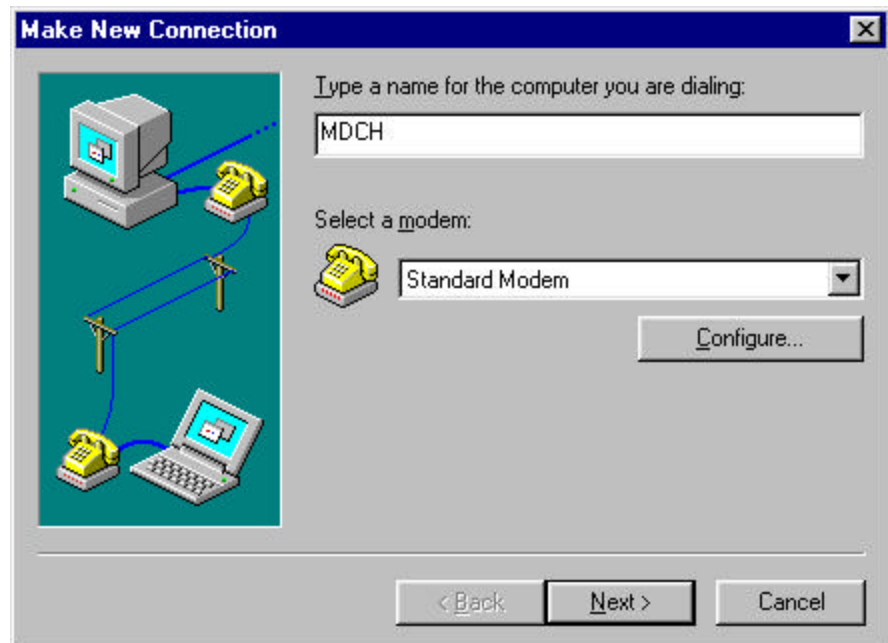4. Enter **MDCH** and select a modem or accept Standard Modem. Click **Next**.



**Figure 5-3:    Naming the Modem Connection**

5. In the Make a New Connection window, enter the area code **517** and telephone number (**373-6181**) in the appropriate fields; then enter **United States of America (1)** as the country code (Figure 5-4).  Click Next.
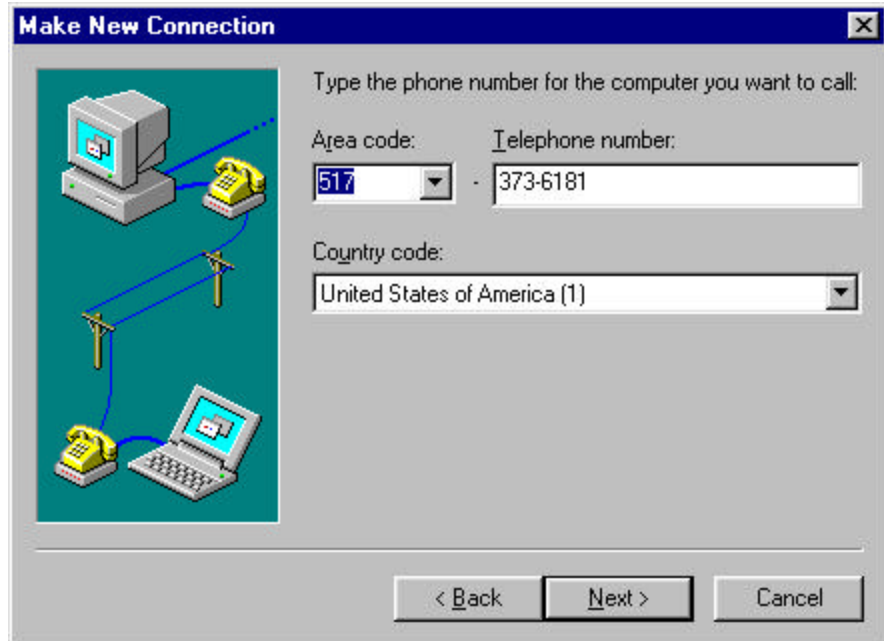


**Figure 5-4:    Specifying the Modem Connection**

6. Click Finish.  A new connection is established (Figure 5-5).  The Make New Connection window automatically closes, and the connection icon appears in the My Computers window.
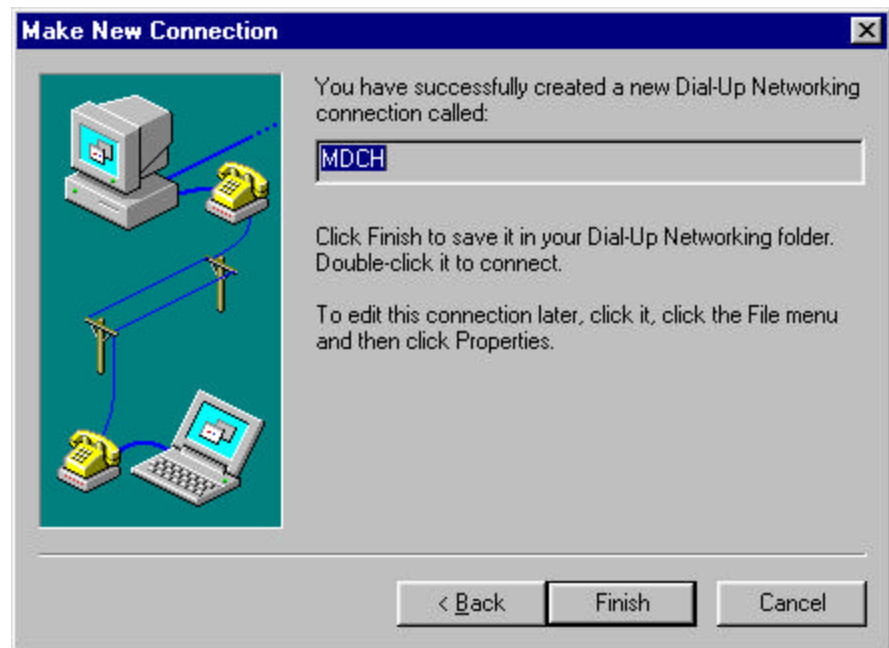
**Figure 5-5:  New Dial-Up Connection Confirmation Window**

7.  Return to the Dial-Up Networking window.

8.  Select the MDCH icon just created by clicking on it once to select it.

9.  Click File from the menu bar; then select Properties from the drop-down list.  The window in Figure 5-6 appears.

**Figure 5-6:    Verifying Dial-Up Connection Settings**
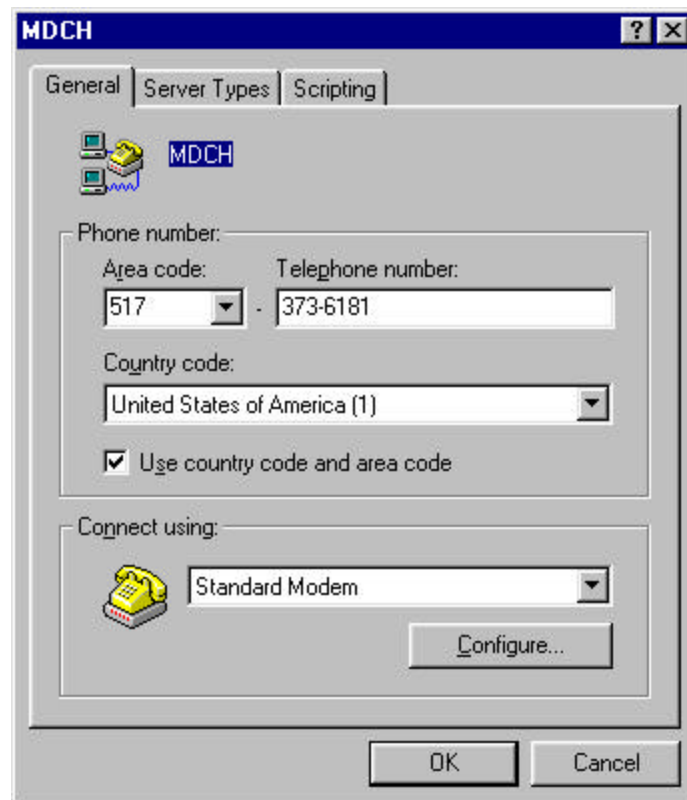
10. Verify that the information is correct; then click the Server Type tab. The window in Figure 5-7 will appear.
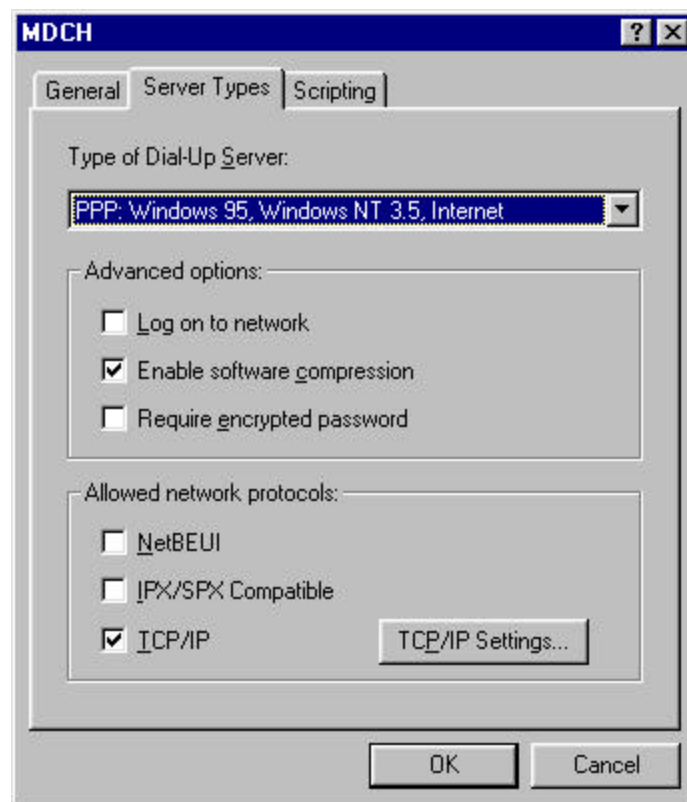
**Figure 5-7:    Server Types Window**

11. Select the Type of Dial-Up Server shown, check the box next to
Enable software compression by clicking in it once, and check
TCP/IP box; then click the TCP/IP settings button.  The window in
Figure 5-8 appears.
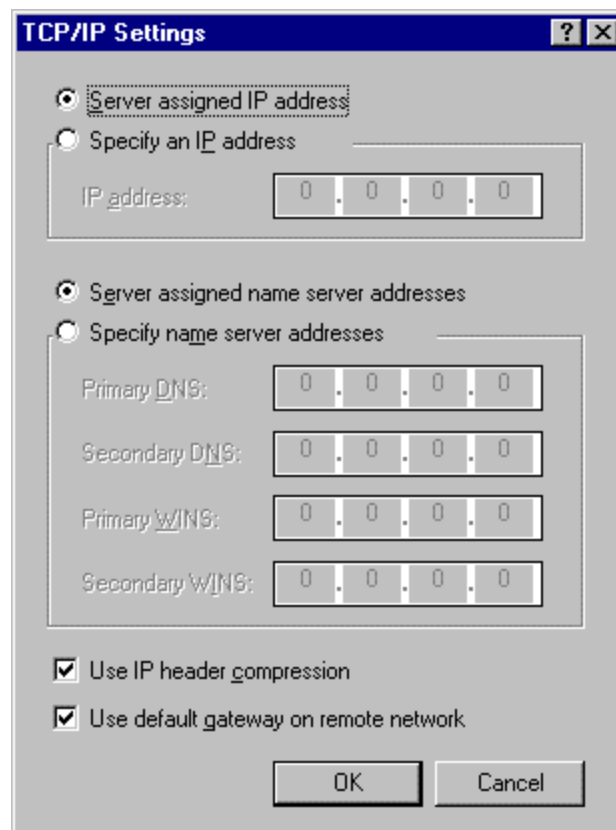
**Figure 5-8: TCP/IP Settings Window**

12. Modify the window on the computer to look like the window in Figure 5-8; then click **OK**. Click **OK** again to close the MDCH window. The PPP software is ready.

13. To log on to the PPP process, go to the Start menu, and select Programs, Accessories, and Dial-Up Networking.

14. Double-click the MDCH icon.

15. The Connect To window appears (Figure 5-9).

**Figure 5-9:    Connecting to the MDCH Gateway**

16. Enter the user name and password **guest**.  (This user name and password will establish that a connection has been made.  Other user names and passwords are used for testing and production.)

17. Verify that the correct telephone number appears in the correct field.

18. Click Connect.

19. Once the connection is established (the sounds of the dialing and connection will be heard), the PPP window minimizes itself.

20. Close the Dial-Up Networking window.

5.1.3   Starting the File Transfer Protocol (FTP) Session in the Test Environment

The following example is based on the software that comes with Windows 95 or NT.  It is similar to the DOS commands used by other operating systems.  Other Windows-based FTP software is available.  **NOTE**:  When using graphical user interface (GUI) FTP software, the options will need to be set to prompt for a remote destination when "putting" a file to the DEG.  The DEG is very specific to the syntax described in the "put" command below.

1.  To start an FTP session, click the **Start** button in the lower left corner of the computer screen.

2.  Click Run from the Start menu.

3.  Enter **ftp 204.23.253.97** in the open field; then click **OK**.

4. Once the FTP software starts, a DOS window appears, and the DEG asks for a user ID.  Enter **dch00XX**, where XX represents the last two digits of the user ID number, and press the Enter key. (Until a user ID is established, electronic submitters may use **dchtst5** or **dchtst6** to test the connection.)

5. When prompted for a password, enter the user ID you entered in the previous step and press Enter.

6. Once the DEG responds, choose an action from Table 5-1.

**Table 5-1.    FTP Commands for the DEG**

| Command | Description | Example |
|---|---|---|
| **cd** | Change directory | **cd<space><directory name>** For instance, type **cd<space>dchbull** to view files you sent to the DEG; type **cd<space>dch00XX** to return to your user ID number. |
| **dir** | Show directory of files waiting | |
| **put** | Move a file to the DEG | **put<space>c:\4275t 4275t@dchedi** (for ANSI X12 837 v 4010 and 3051 files) or **put<space>c:\4275t 4275t@dchbull** (for UB -92 files).  The "t" at the end of the file name indicates this is a test file. |
| **get** | Receive a file from the DEG | **Get<space>4276t<space>c:\4276t** |
| **user** | Change User ID number | |
| **del** | Delete a file from the DEG | **del<space>4276t** (Deletes all files of this number!) |
| **quit** | End the FTP session | |
| **help** | Shows a list of commands | |
| **bye** | Ends session | |

7. To end the FTP session, type **bye**.

8. To end the PPP session, click the minimized Dial-Up Networking icon at the bottom of the screen.  Click Disconnect.
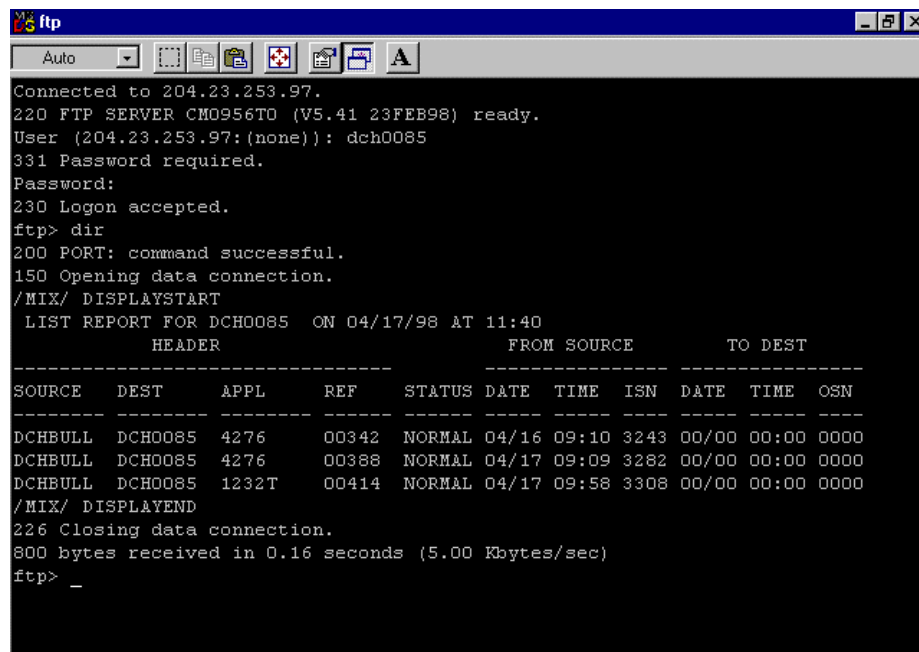
**File Naming Standards:**  Any file name that ends with a "t" will not be delivered to the production environment.  A "t" designates a testing file.

5.1.4    Using PPP and FTP in the Production Environment

When making a PPP connection, use the user ID and password **guest** (lowercase for both) for the PPP connection.  When making the FTP connection, use the user ID and password DCH**ØØ**XX, where XX represents the numeric electronic ID assigned by MDCH.

Once the logon is accepted and the prompt **ftp>** appears (as shown in Figure 5-10), type **dir** to select the directory of files available.



```
ftp                                                            _ 8 X

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Connected to 204.23.253.97.
220 FTP SERVER CM0956TO (V5.41 23FEB98) ready.
User (204.23.253.97:(none)): dch0085
331 Password required.
Password:
230 Logon accepted.
ftp> dir
200 PORT: command successful.
150 Opening data connection.
/MIX/ DISPLAYSTART
 LIST REPORT FOR DCH0085  ON 04/17/98 AT 11:40
             HEADER                          FROM SOURCE        TO DEST
----------------------------------    ----------------  ----------------
SOURCE   DEST     APPL     REF    STATUS DATE  TIME  ISN  DATE  TIME  OSN
-------- -------- -------- ------ ------ ----- ----- ---- ----- ----- ----
DCHBULL  DCH0085  4276     00342  NORMAL 04/16 09:10 3243 00/00 00:00 0000
DCHBULL  DCH0085  4276     00388  NORMAL 04/17 09:09 3282 00/00 00:00 0000
DCHBULL  DCH0085  1232T    00414  NORMAL 04/17 09:58 3308 00/00 00:00 0000
/MIX/ DISPLAYEND
226 Closing data connection.
800 bytes received in 0.16 seconds (5.00 Kbytes/sec)
ftp> _
```

**Figure 5-10:   FTP Window in a Production Environment**

**5.1.4.1        "Putting" a File on the DEG**

When you send an Invoice Processing or Managed Care file to the DEG, take the following steps.

1.  Type:
    **put<space> <volume>\<directory>\<file> <space> <file number>@<location>**
    For example, **put<space>c:\dos\4780@dchedi**, where **c** is the hard drive, **DOS** is the directory, **4780** is the file for the primary care physician, followed by a **space**, the @ sign, and a location of **dchedi (dch** indicates the Department of Community Health, and **edi** indicates the American National Standards Institute X12 837 transaction format).

2. Once the file is transferred to **dchedi**, translation begins immediately and an ANSI X12 997 Acknowledgment transaction is produced and moved to the sender's mailbox.

**3.** Enter the **dir** command to see the ANSI X12 997 Acknowledgment **with the name of the file sent.**

4. Download the ANSI X12 997 Acknowledgment file by entering a get command, being careful to change the file name for the destination system so the file sent is not written over. Adding an "a" to the file name would indicate it has been acknowledged.

**5.1.4.2    "Getting" a File from the DEG**

1. From the window shown in Figure 5-10, type **dir** in response to the ftp> prompt.

2. From the list of files shown, look at the column labeled **APPL**. These are files ready to be retrieved.

3. Type, in this example, **get 4276 c:\download\4276**. This will move the *oldest* 4276 file to the sender's PC. The file will be downloaded to the C drive, in the "download" directory, to file 4276.

## 5.2    INTERNET SSL CONNECTION/HTTPS

The ability to submit files through the Michigan Data Exchange Gateway using the World Wide Web has recently been established by MDCH. This approach is called the State of Michigan Date Exchange Gateway Web (DEGweb). Instructions for submitting files using the Web are found at the MDCH Web site with this manual. To access the DEGweb instructions, go to www.michigan.gov/mdch, then click Providers, Information for Medicaid Providers, Michigan Medicaid Uniform Billing Project, Electronic Claims Submission Information.